

Bray, et al
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Amendment to the Claims

This listing of claims will replace all prior versions and listings of the claims in the application:

Listing of the Claims

1. (Currently amended) An improved aluminum alloy product having ~~improved fatigue failure resistance, said alloy comprising~~ about, by weight, 7.6 to about 8.4% zinc, about 2.0 to about 2.5% copper, about 1.8 to about 2.3 % magnesium, about 0.088 to about 0.25% zirconium, ~~about 0.01 to about 0.09 % iron, and about 0.01 to about 0.06% silicon,~~ the balance to 100 weight % substantially aluminum and incidental elements and impurities, the improvement comprising maintaining the weight percents of iron and silicon to about 0.01 to about 0.09 % iron, and about 0.01 to about 0.06% silicon.

2. (Withdrawn) The alloy product of claim 1 consisting essentially of about, by weight, 7.6 to about 8.4% Zn, about 2.0 to about 2.6% Cu, about 1.8 to about 2.3% Mg, about 0.88 to about 0.25 Zr, about 0.01 to about 0.09% Fe, and about 0.01 to about 0.06% Si, the balance to weight % substantially aluminum and incidental elements and impurities.

3. (Withdrawn) The alloy product of claim 1 consisting of about, by weight, 7.6 to about 8.4% Zn, about 2.0 to about 2.6% Cu, about 1.8 to about 2.3% Mg, about 0.88 to about 0.25 Zr, about 0.01 to about 0.09% Fe, and about 0.01 to about 0.06% Si, the balance to weight % substantially aluminum and incidental elements and impurities.

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4. (Currently amended) The improved alloy product of claim 1, wherein said product is a plate, sheet, extrusion, forging or casting.

5. (Currently Amended) An improved AA 7XXX series alloy product suitable for aerospace applications having improved fatigue failure resistance, said alloy comprising about, by weight, 7.6 to about 8.4% zinc, about 2.0 to about 2.6% copper, about 1.8 to about 2.3 % magnesium, about 0.088 to about 0.25% Zr, ~~about 0.01 to about 0.09% Fe, and about 0.01 to about 0.06% Si,~~ the balance to weight % substantially aluminum and incidental elements and impurities, the improvement comprising lowering the amount of Fe to about 0.01 to about 0.09%, and the amount of Si to about 0.01 to about 0.06%.

6. (Currently Amended) The improved alloy product of claim 5, wherein said product is a plate, sheet, extrusion, forging or casting.

7. (Currently Amended) The improved alloy product ~~structural member of~~ claim 4 which is a plate suitable for use as an upper wing member.

8. (Currently Amended) The improved alloy product of claim 1 which has been solution heat treated, stress relieved via plastic deformation, and ~~then~~ artificially aged.

9. (Currently Amended) An improved alloy extrusion having a cross-section including a thickness less than about 3 inches having a composition including ~~comprising~~ about, by weight, 7.6 to about 8.4% zinc, about 2.0 to about 2.6% copper, about 1.8 to about 2.3 % magnesium, about 0.088 to about 0.25% Zr, ~~about 0.01 to about 0.09% Fe, and about 0.01 to about 0.06% Si,~~ the balance to weight % substantially aluminum and incidental elements and impurities, the improvement

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comprising, wherein the alloy further comprises 0.01 to 0.09 wt.% Fe and 0.01 to 0.06 wt.% Si.

10. (Withdrawn) A product according to claim 1 having better fatigue failure resistance than a 7055 product of similar size, shape, thickness and temper.